

D24
Cond

42. (Amended) A process for simultaneously amplifying and sequencing a single stranded DNA molecule, comprising the steps of:

- a) contacting the single stranded DNA molecule with: (i) a primer that can hybridize to the single stranded DNA molecule, (ii) a set of chain elongating nucleotides, (iii) at least one chain terminating nucleotide, (iv) a first DNA polymerase; and (v) a second DNA polymerase, which has a higher affinity towards the chain terminating nucleotide relative to the first polymerase, so that polymerization by the first polymerase results in amplification and polymerization by the second polymerase results in the formation of chain terminated fragments;
- b) detecting the chain terminated fragments by a detection means; and
- c) aligning the fragments to determine the sequence of the single stranded nucleic acid molecule.

D5

48. (Amended) A process of claim 42, wherein the single stranded DNA molecule has been synthesized from RNA using a reverse transcriptase.

REMARKS

Claims 34-58 are pending.

The amendments to claims 41, 42 and 48 have been made to recite certain elements with proper antecedent basis. Because the claim amendments are merely cosmetic, applicants submit that the amendments would not narrow the scope of the